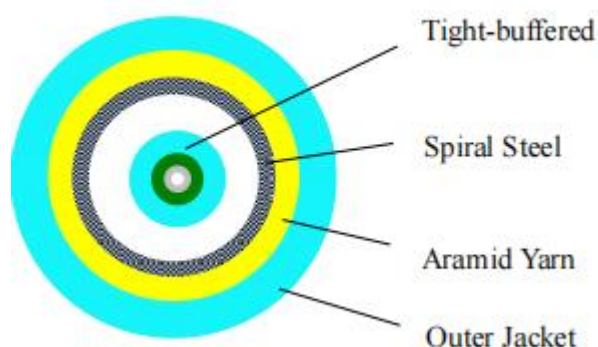




Indoor Armored Fiber Optical Cable GJSFJV 2.0mm 3.0mm Simplex

G.657A1 Corning Jacket LSZH PVC

Cable Design



Technical data

No. of cable			1
Fiber Model			G.657A1
Tight lines	Material		PVC
	Thickness (±0.03) mm		0.32
	Diameter (±0.06) mm		0.9
	Colour		White
Strength Member	Material		Aramid Yarn&Water Blocking yarn
Outer Sheath	Material		LSZH
	Thickness (±0.05) mm		0.65
	Colour		Black
Cable Diameter (±0.2) mm			3.0
Cable Wetght (±2) kg/km			8.0
Attenuation	1310nm	dB/km	0.36
	1550nm		0.22
Allowable Tensile Strength	Short Term	N	1000
	Long Term		400
Allowable Crush Resistance	Short Term	N/100mm	100
	Long Term		30
Min. bending radius	Without Tension		10.0×Cable- ϕ
	Under Maximum Tension		20.0×Cable- ϕ
Temperature range (℃)	Installation		-20~+60
	Transport&Storage		-40~+70
	Operation		-40~+70

**The properties of single mode optical fiber (ITU-T Rec. G.657A1)**

Characteristic	condition	data	unit
Optical properties			
Attenuation	1310nm	≤ 0.35	dB/km
	1383nm(氢老化后)	≤ 0.35	dB/km
	1490nm	≤ 0.23	dB/km
	1550nm	≤ 0.22	dB/km
	1625nm	≤ 0.23	dB/km
Relative wavelength attenuation @1310nm @1550nm	1285~1330nm	≤ 0.05	dB/km
	1525~1575nm	≤ 0.05	dB/km
Dispersion in the wavelength range of	1285~1340nm	≤ 3.5	ps/(nm.km)
	1550nm	≤ 18	ps/(nm.km)
Zero dispersion wavelength		1300~1324	nm
A zero-dispersion slope		≤ 0.092	ps/(nm ² .km)
Polarization Mode Dispersion Coefficient PMD		≤ 0.2	ps/
Single fiber maximum		≤ 0.1	ps/
Fiber link value (M=20, Q=0.01%)		0.04	
Typical value			ps/
Cable cut-off wavelength (λ_{cc})		≤ 1260	nm
Mode field diameter (MFD)	1310nm	8.8 ± 0.4	μm
	1550nm	9.8 ± 0.5	μm
Attenuation discontinuities	1310nm	≤ 0.05	dB
	1550nm	≤ 0.05	dB
Geometric characteristics			
Core diameter		125 ± 0.7	μm
Cladding roundness		≤ 0.7	%
Coating diameter		245 ± 5	μm
Coating / package concentricity error		≤ 12.0	μm
Core / package concentricity error		≤ 0.5	μm
The warpage (radius)		≥ 4	m
Environmental characteristics (1310nm、1550nm、1625nm)			
Temperature additional attenuation	-60℃ ~ +85℃	≤ 0.05	dB/km
Temperature-humidity cycle additional attenuation	-10℃ ~ +85℃, 98% Relative humidity	≤ 0.05	dB/km
Flooding additional attenuation	23℃, 30 days	≤ 0.05	dB/km
Hot and humid additional attenuation	85℃ 和 85% Relative humidity, 30 days	≤ 0.05	dB/km
Dry heat aging	85℃	≤ 0.05	dB/km
Mechanical properties			
Screening tension		≥ 9.0	N
The macro bend Additional attenuation 10 CircleΦ30mm			

10 CircleΦ30mm	1550nm	≤ 0.025	dB
1 CircleΦ20mm	1625nm	≤ 1.0	dB
1 CircleΦ20mm	1550nm	≤ 0.75	dB
	1625nm	≤ 1.5	dB
Coating peeling force	Typical average	1.5	N
Dynamic fatigue parameters		≥ 20	

Sheath marking

The color of marking is white, but if the remarking is necessary, the white color marking shall be printed newly on a different position.

An occasional unclear of length marking is permitted if both of the neighboring markings are clear.

The both cable ends are sealed with heat shrinkable end caps to prevent water ingress.